

Heating & Cooling System for Non Jacketed Vessels

POLSTAT 3500



Wide range of interchangeable vessel sizes and shapes

Independent control of 4 blocks

Automate recipe management and data logging

Magnetic & overhead stirring

PiLab control

Temperature range of -30°C to 150°C

Features

- Independent control of 4 blocks at different temperatures
- Temperature range of -30°C to 150°C
- 4 Independent reactions can run at same time
- Wide selection of vessels ranging from 0.5ml to 250ml (non jacketed)
- Vessel types such as vials, tubes, round bottom flasks and process vessels
- Built-in magnetic stirrer, overhead stirrer will provide excellent agitation for viscous liquids
- Precise temperature measurement by using Pt100 temperature sensor

- 0.1°C/min to 2°C/min ramp rate in heating and cooling process
- Export experimental profiles and results via Ethernet connection
- Compact bench top footprint-fumehood compatible
- Control mode: block, mass and ΔT control
- pH measurement option for each block
- Removable inserts for easy change of reaction vessels
- Monitor and control through PiLab/Tab
- Profile control - 10 segments

Advantages

- 4x output with 4 independent reactors, well suited for DOE campaigns
- Replaces inefficient, messy, unsafe oil and ice baths
- Reduces manual errors
- Compact design saves laboratory space
- 21CFR compliant PiLab

Applications

- Single or parallel synthesis
- Process development
- Design of experiments(DOE)
- Scale up
- Peptide chemistry
- Supercritical fluid separation

Specifications

Technical		Power Supply	
Temperature range	-30°C to 150°C	Input voltage	220VAC
Temperature control mode	Block, Mass and ΔT control	Physical	
Vessel sizes	0.5ml to 250ml (non jacketed)	Enclosure	MS with powder coating
Vessel shapes	Vials, test tubes, round bottom flasks and process vessels	Mounting	Bench top
Removable inserts	Suitable to vessel sizes	Dimensions (L X W X H)	670X500X240 mm
Controlling & data handling	PiLab	Environmental Conditions	
Display	4.3" LCD	Operating amb. temperature	10-50°C
Communication	Ethernet, RS485	Humidity	10-95%RH, Non-condensing
Stirring	Built-in magnetic stirrer, overhead stirrer		
Chillier supply for cooling	+5°C		
Temperature sensors	Pt100 temperature sensors		
Temperature stability	±0.1°C		
End Connection	Quick Coupling Connector 1/2"		

Note: For Ordering Information Contact Sales Team.

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All specifications are subject to change without notice.
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